Full-time academic vacancy in the field of Data Representation and Engineering

Start date: 1 September 2021

Description of the course load:

A full-time, indivisible position in the field of Data Representation and Engineering within the Electricity, Electronics and IT Department (EEI). This post includes teaching, research and services to the Community.

Work environment

The successful applicant will work within the Electricity, Electronics and IT Department (EEI) in the Faculty of Applied Sciences.

The aim of the Institut Montefiore, which houses the EEI Department, is to provide high quality education at Bachelor’s, Master’s and Doctoral levels, to conduct leading international research in the fields of electrical engineering and computer science, and to support industrial development through the applications of its research.

Data engineering fits naturally into the teaching and research environment of the Institut Montefiore, the activities of which revolve around two complementary themes, namely

- the capture, transmission and processing of information,
- the design and control of electrical, electronic and computer systems interacting with the worlds of physics and biology.

The Institut Montefiore’s teams are active and recognised in the fields of computer systems, automatic learning and artificial intelligence, and data processing. Natural synergies therefore exist, both internally at the Institut Montefiore and with partners from other departments of the Faculty of Applied Sciences or other faculties of the University of Liège which have to address the storage and processing of massive and/or semantic data (medical, economic, financial, food stuffs data, etc.).

A detailed description of the department and its activities can be found at www.montefiore.ulg.be.

Teaching activities:

The successful applicant will teach students in the fields of Computer Engineering, Data Science Engineering, Computer Science and Data Science, as well as other fields and faculties that include database courses in their programmes. The teaching load may not exceed 250 hours per year (including any practical work and seminars).

For example, the skills of the future post-holder may naturally and usefully be expressed in a subset of the following courses, which concern both Bachelor’s and Master’s students:

- INFO0009-2 Databases (general organisation): compulsory course in the Bachelor’s in computer sciences (Block 2), optional course of the Bachelor’s in civil engineering (computer sciences, Block 3), of the Master’s in biomedical engineering (Block 2) (26h Pr., 26h Th., 25h Proj., 5 credits).
- **Advanced Databases**: elective course in the Master’s in Computer Engineering and Master’s in Computer Science programme (24h Pr., 20h Th., 5 credits).
- **Knowledge Representation and Reasoning**: compulsory course in the advanced Master’s in Data Science Engineering and the Master’s in Data Science. Elective course in the Master’s in Computer Engineering and Master’s in Computer Science (24h Pr., 20h Th., 5 credits).
- **INFO8002-1 Large-scale data systems**: compulsory course in the advanced Master’s in Data Science Engineering and the Master’s in Data Science. Elective course in the Master’s in Computer Engineering and Master’s in Computer Science (25h Pr., 10h Th., 5 credits).

The successful applicant may also propose to develop specific course(s) exploiting synergies with their own research. They will also participate in the supervision of placements and theses in their research areas.

**Research Activities:**

The successful applicant will develop research in the field of data and knowledge representation and engineering, which may cover database systems, architectural and algorithmic solutions, semantic aspects, adapted languages, theoretical foundations and applications.

They will submit applications for funding to finance their activities and will supervise doctoral students.

**Services to the Community:**

The successful applicant will participate in services to ensure the promotion and visibility of the activities developed within the EEI Department and the Faculty of Applied Sciences.

**Qualifications required / profile**

The candidate will hold a research doctorate in a field directly related to the anticipated research activities. They will be able to demonstrate international experience and publications in well-established international journals. They will be able to teach in English.

**Selection procedure**

Applications will be subject to a pre-selection on the basis of a dossier by a selection commission created by the Faculty of Applied Sciences. Successful candidates will then be invited to an interview which will include a sample lesson, the presentation of their research project and a general discussion with the selection committee.

**Applications**

Applicants are requested to submit their applications electronically, to the following address: Postesacademiques@uliege.be with a copy to Ms. Aurélie Lecca - Aurelie.Lecca@uliege.be by 15 February 2021 at the latest.

**Documents required:**

- A letter of application;
- A complete curriculum vitae;
- A list of the five main publications and a description of their contribution to the developments in the sector;
✓ A report on past and current research activities and a research plan, including the envisaged integration within the University of Liège;
✓ A teaching file including a report on any prior teaching activities and a teaching plan;
✓ A copy of publications;

Recruitment conditions

The position shall be assigned either for a fixed term of four years, which may lead to the permanent appointment of the person concerned or on a permanent basis from the outset.

In the case of a four-year appointment, an evaluation of the person concerned will be carried out at the end of the third year.

- If the evaluation is negative, the person concerned will complete the four-year term but will not be able to extend it.
- If the assessment is positive, the person concerned shall be appointed on a permanent basis.

Our institutional policy is based on diversity and equal opportunities. We select candidates according to their qualities whatever their age, sexual orientation, origin, beliefs, disability or nationality.

Information

Any information concerning research and teaching activities can be obtained from Professor Guy Leduc - tel: +32 4 366 26 98 – Guy.Leduc@uliege.be

Any further information can be obtained from the Faculty of Applied Sciences, Ms Aurélie Lecca - tel: +32 4 366 94 68 – Aurelie.Lecca@uliege.be

Salary:

Salary scales and how they are applied are available from the human resources department of the University: Ms Ludivine Depas – tel.: +32 4 366 52 04 – Ludivine.Depas@uliege.be